

Peter Fulde

List of Publications by Year in descending order

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89
papers

7,457
citations

87723

38
h-index

60497

81
g-index

90
all docs

90
docs citations

90
times ranked

3557
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Superconductivity in a Strong Spin-Exchange Field. <i>Physical Review</i> , 1964, 135, A550-A563. | 2.7 | 2,798 |
| 2 | Theory of Heavy Fermion Systems. <i>Solid State Physics</i> , 1988, 41, 1-150. | 1.3 | 295 |
| 3 | On the computation of electronic correlation energies within the local approach. <i>Journal of Chemical Physics</i> , 1980, 73, 4548-4561. | 1.2 | 245 |
| 4 | Magnetic Field Splitting of the Quasiparticle States in Superconducting Aluminum Films. <i>Physical Review Letters</i> , 1970, 25, 1270-1272. | 2.9 | 236 |
| 5 | Some crystalline field effects in metals. <i>Advances in Physics</i> , 1972, 21, 1-67. | 35.9 | 218 |
| 6 | High field superconductivity in thin films. <i>Advances in Physics</i> , 1973, 22, 667-719. | 35.9 | 199 |
| 7 | Magnetic excitations in crystal-field split 4f systems. <i>Advances in Physics</i> , 1985, 34, 589-661. | 35.9 | 183 |
| 8 | Ground state calculations of diacetyne-cyclooctatetraene cerium. <i>Journal of Chemical Physics</i> , 1991, 94, 3011-3017. | 1.2 | 168 |
| 9 | Theory of Superconductors Containing Magnetic Impurities. <i>Physical Review</i> , 1966, 141, 275-280. | 2.7 | 160 |
| 10 | Line width of crystal-field excitations in metallic rare-earth systems. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1977, 28, 9-18. | 1.9 | 155 |
| 11 | Bound State between a Crystal-Field Excitation and a Phonon in CeAl ₂ . <i>Physical Review Letters</i> , 1982, 49, 1588-1591. | 2.9 | 155 |
| 12 | On the accuracy of correlation-energy expansions in terms of local increments. <i>Journal of Chemical Physics</i> , 2005, 123, 144108. | 1.2 | 127 |
| 13 | Ab initio calculation of ground-state properties of rare-gas crystals. <i>Physical Review B</i> , 1999, 60, 7905-7910. | 1.1 | 118 |
| 14 | Surfaces of Transition Metals. <i>Physical Review B</i> , 1973, 8, 440-452. | 1.1 | 115 |
| 15 | Effects of Impurities on Spin Fluctuations in Almost Ferromagnetic Metals. <i>Physical Review</i> , 1968, 170, 570-575. | 2.7 | 114 |
| 16 | Ab initio coupled-cluster calculations for the fcc and hcp structures of rare-gas solids. <i>Physical Review B</i> , 2000, 62, 5482-5488. | 1.1 | 112 |
| 17 | Superconductors containing impurities with crystal-field split energy levels. <i>Zeitschrift für Physik A</i> , 1970, 230, 155-177. | 0.9 | 108 |
| 18 | A local approach to the computation of correlation energies of molecules. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1977, 26, 257-262. | 1.9 | 102 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Description of intraatomic correlations by the Local Approach. Zeitschrift für Physik B Condensed Matter and Quanta, 1978, 29, 231-237. | 1.9 | 94 |
| 20 | Cohesive energies of cubic III-V semiconductors. Physical Review B, 1996, 54, 2556-2560. | 1.1 | 90 |
| 21 | Magnetoelastic interaction in rare earth systems. Zeitschrift für Physik B Condensed Matter and Quanta, 1975, 21, 369-379. | 1.9 | 89 |
| 22 | Influence of electron correlations on ground-state properties of III-V semiconductors. Physical Review B, 1997, 55, 4027-4030. | 1.1 | 88 |
| 23 | Correlation effects in ionic crystals: The cohesive energy of MgO. Physical Review B, 1995, 52, 4842-4848. | 1.1 | 85 |
| 24 | Equivalence of Different Pair-Breaking Mechanisms in Superconductors. Physical Review, 1965, 140, A1586-A1592. | 2.7 | 84 |
| 25 | Wave-function-based correlated ab initio calculations on crystalline solids. Physical Review B, 1999, 60, 5211-5216. | 1.1 | 73 |
| 26 | Low-lying electronic states of lanthanocenes and actinocenes $M(C_8H_8)_2$ ($M=Nd, Tb, Yb, U$). Journal of Chemical Physics, 1997, 107, 3584-3591. | 1.2 | 66 |
| 27 | On the theory of electronic correlations in solids. Zeitschrift für Physik B Condensed Matter and Quanta, 1979, 36, 23-35. | 1.9 | 62 |
| 28 | On the theory of superconductors containing magnetic impurities: Crystalline field effects. Journal of Low Temperature Physics, 1971, 4, 289-298. | 0.6 | 60 |
| 29 | Electron correlations for ground-state properties of group-IV semiconductors. Physical Review B, 1995, 51, 10572-10578. | 1.1 | 58 |
| 30 | Magnetic field dependence of the Peierls instability in one-dimensional conductors. Zeitschrift für Physik A, 1973, 265, 239-243. | 0.9 | 52 |
| 31 | Ab initio approach to cohesive properties of GdN. Physical Review B, 1998, 57, 2127-2133. | 1.1 | 46 |
| 32 | Tunneling Density of States for a Superconductor Carrying a Current. Physical Review, 1965, 137, A783-A787. | 2.7 | 45 |
| 33 | Spin Relaxation and Transport in Magnetic Alloys. Physical Review, 1968, 175, 337-341. | 2.7 | 45 |
| 34 | Crystalline field effects in metals: Thermoelectric power. Zeitschrift für Physik A, 1970, 238, 99-109. | 0.9 | 44 |
| 35 | Calculated Properties of Lanthanocene Anions and the Unusual Electronic Structure of Their Neutral Counterparts. Inorganic Chemistry, 1998, 37, 1067-1072. | 1.9 | 44 |
| 36 | A method of calculating electron correlations for large molecules involving C, N, and H atoms. Journal of Chemical Physics, 1986, 85, 5183-5193. | 1.2 | 43 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Application of projection techniques to the electron correlation problem. Journal of Chemical Physics, 1989, 91, 4223-4228. | 1.2 | 43 |
| 38 | Valence-band structure of group-IV semiconductors by means of local increments. Physical Review B, 1997, 55, 13588-13597. | 1.1 | 43 |
| 39 | Current theories of the high-T _c superconducting materials. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1769-1774. | 0.6 | 34 |
| 40 | Electron correlations in the ground state of covalent semiconductors. Physical Review B, 1985, 31, 7800-7811. | 1.1 | 32 |
| 41 | Magnetic-Field Dependence of the Knight Shift in Superconductors. Physical Review, 1965, 139, A788-A793. | 2.7 | 31 |
| 42 | Layered superconductors in high magnetic fields. European Physical Journal A, 1974, 267, 223-228. | 1.0 | 30 |
| 43 | An ab initio estimate of correlation effects on the band gap of covalent semiconductors: diamond and silicon. Chemical Physics Letters, 2000, 319, 355-362. | 1.2 | 29 |
| 44 | Critical Current and Electron Depairing in Superconducting Films. Physical Review, 1963, 131, 2457-2459. | 2.7 | 24 |
| 45 | On the theory of impurities in a lattice of magnetic ions: Crystalline field effects. Zeitschrift für Physik A, 1971, 241, 82-102. | 0.9 | 24 |
| 46 | Surfaces of Van Vleck ferro- and paramagnets. Zeitschrift für Physik A, 1973, 259, 145-156. | 0.9 | 24 |
| 47 | Electron correlations in molecules. I Bond orbital approximation. Chemical Physics, 1986, 106, 11-26. | 0.9 | 24 |
| 48 | Superconductors with crystalline-field split impurities: Upper critical field and specific heat. Journal of Low Temperature Physics, 1973, 12, 63-70. | 0.6 | 21 |
| 49 | On the coupled-electron-pair approximation based on a multireference state. Journal of Chemical Physics, 1992, 97, 4185-4187. | 1.2 | 21 |
| 50 | Analysis of large-scale multi-configuration self-consistent field wave functions by expectation values of local operators. Journal of Chemical Physics, 1996, 105, 2353-2363. | 1.2 | 21 |
| 51 | The role of spin-orbit scattering in high field superconducting tunneling. Zeitschrift für Physik A, 1971, 247, 1-8. | 0.9 | 20 |
| 52 | Fluctuations in high field superconductors. Zeitschrift für Physik A, 1970, 238, 233-248. | 0.9 | 18 |
| 53 | A Hartree-Fock ab initio band-structure calculation employing Wannier-type orbitals. Chemical Physics Letters, 1998, 285, 174-179. | 1.2 | 17 |
| 54 | Chapter 17 Crystal fields. Fundamental Theories of Physics, 1979, 2, 295-386. | 0.1 | 16 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Electron correlations in molecules. II. General trends derived for isoelectronic series. Chemical Physics, 1986, 106, 27-38. | 0.9 | 15 |
| 56 | Electron correlations in molecules. III. Strength of electron correlations in localized and aromatic bonds of main-group atoms. Chemical Physics, 1987, 117, 385-403. | 0.9 | 15 |
| 57 | Spin-Orbit Scattering Effects on the Phonon Emission and Absorption in Superconducting Tunneling Junctions. Physical Review Letters, 1996, 77, 2550-2553. | 2.9 | 15 |
| 58 | Dealing with the exponential wall in electronic structure calculations. Journal of Chemical Physics, 2017, 146, 194107. | 1.2 | 15 |
| 59 | Orbital localization and delocalization effects in the U5f2configuration: Impurity problem. Physical Review B, 1998, 57, 10648-10654. | 1.1 | 13 |
| 60 | On the theory of superconductors with magnetic impurities in a singlet ground state. Solid State Communications, 1970, 8, 341-343. | 0.9 | 12 |
| 61 | On the computation of electronic excitations in solids. European Physical Journal B, 1982, 48, 113-121. | 0.6 | 12 |
| 62 | Ground-state wave functions and energies of solids. International Journal of Quantum Chemistry, 2000, 76, 385-395. | 1.0 | 10 |
| 63 | Wavefunction-based electronic-structure calculations for solids. Nature Physics, 2016, 12, 106-107. | 6.5 | 10 |
| 64 | Structural and magnetic phase transitions in metallic singlet ground state systems. Zeitschrift für Physik B Condensed Matter and Quanta, 1975, 20, 89-94. | 1.9 | 9 |
| 65 | Physical picture of electron correlations in three-center four-electron bonds. European Physical Journal B, 1989, 76, 239-245. | 0.6 | 9 |
| 66 | Optimized orbitals for the description of electron correlations. Journal of Chemical Physics, 1987, 87, 2976-2985. | 1.2 | 8 |
| 67 | Treatment of electron correlations by local operators: A status report. Computational and Theoretical Chemistry, 1989, 202, 63-74. | 1.5 | 7 |
| 68 | Correlation energy contribution to cohesion in covalent structures. Journal De Physique, 1989, 50, 2659-2671. | 1.8 | 7 |
| 69 | Nonequilibrium superconductivity in spin-polarized superconducting tunneling junctions. Physical Review B, 1997, 56, 2751-2763. | 1.1 | 6 |
| 70 | Strongly Correlated Electrons. Springer Series in Solid-state Sciences, 1993, , 267-307. | 0.3 | 6 |
| 71 | Zero bias tunneling conductance for high field superconductors. European Physical Journal B, 1968, 7, 150-161. | 0.6 | 5 |
| 72 | Selected crystal field effects in rare earth systems. Journal of Applied Physics, 1978, 49, 1311-1314. | 1.1 | 5 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Finite-frequency effects for elastic waves in rare-earth compounds. <i>Physical Review B</i> , 1984, 30, 4137-4145. | 1.1 | 5 |
| 74 | Correlation energy calculations for infinite systems. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 103-134. | 1.0 | 5 |
| 75 | Electronic excitations in semiconductors: Variational Green's-function approach. <i>Physical Review B</i> , 1984, 30, 757-763. | 1.1 | 4 |
| 76 | The atomic correlation operator method. <i>Journal of Chemical Physics</i> , 1991, 95, 2577-2582. | 1.2 | 4 |
| 77 | Electron correlation effects in diamond: A wave-function quantum-chemistry study of the quasiparticle band structure. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 4 |
| 78 | Line Width of Crystal-Field Excitations Due to Electrons and Phonons. , 1977, , 284-292. | | 3 |
| 79 | Some numerical calculations on high field superconductivity. <i>European Physical Journal B</i> , 1966, 5, 157-165. | 0.6 | 2 |
| 80 | Linewidth of crystalâ€field excitations in metallic rareâ€earth systems. <i>Journal of Applied Physics</i> , 1978, 49, 1422-1424. | 1.1 | 1 |
| 81 | Electron correlations in two dimensions. <i>Physica Scripta</i> , 1989, T27, 109-112. | 1.2 | 1 |
| 82 | Localized Moments in Metals: Crystal Field Excitations and Their Coupling to Electrons and Phonons. <i>NATO ASI Series Series B: Physics</i> , 1984, , 61-82. | 0.2 | 1 |
| 83 | Variational approach to finite-temperature magnetism. <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 1231-1232. | 1.0 | 0 |
| 84 | Resonating structures versus molecular orbitals: A problem of electron correlations. <i>Computational and Theoretical Chemistry</i> , 1988, 169, 63-68. | 1.5 | 0 |
| 85 | Electronic correlations with inclusion of one-particle operators. <i>European Physical Journal B</i> , 1992, 89, 63-69. | 0.6 | 0 |
| 86 | Magnetic Field Dependence of the Conduction Electron Mass in Praseodymium. , 1982, , 227-232. | | 0 |
| 87 | Unified Description of Strongly and Weakly Correlated Electrons. , 1990, , 291-296. | | 0 |
| 88 | The Projection Technique and Use of Local Operators. <i>Springer Series in Solid-state Sciences</i> , 1993, , 83-100. | 0.3 | 0 |
| 89 | Correlations in Atoms and Molecules. <i>Springer Series in Solid-state Sciences</i> , 1993, , 141-178. | 0.3 | 0 |